

**COMPLETE LISTING OF ALL CLAIMS IN THE APPLICATION**

1-3. (canceled)

4. (currently amended) A protein whose sequence differs from that set forth in SEQ ID

NO: 2 in that ~~one or more of the following amino acid substitutions are present:~~

~~lysine at position 7 is replaced by valine, aspartate at position 52 is replaced by~~

~~histidine, leucine at position 133 replaced by isoleucine, aspartate at position~~

~~186 replaced by histidine, alanine at position 193 replaced by valine, or histidine~~

~~at position 196 replaced by glutamine, wherein said protein has the activity of a~~

~~phosphoribosyl-pyrophosphate synthetase.~~

5-29. (canceled)